

DOWLEX™ 6001GC

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ 6001GC Polyethylene Resin is an ethylene, 1-octene copolymer, suitable for high performance blown film applications alone or in blends with LDPE. It offers superior seal performance at high extrusion output rates and an excellent balance of optical and mechanical properties.

Main Characteristics:

Optimum extruder output and stability, pure or in blends.

Combination of sealability with optical and mechanical properties

Applications:

Lamination Films for Food and Specialty Packaging

Frozen Food Packaging

Fresh Food Packaging

Complies with:

Europe Commission Regulation (EU) No 10/2011EU

U.S. FDA FCN 424

Consult the regulations for complete details

General Information			
Additive	Anti-caking agent (2500 ppm)		
	Sliding agent (900 ppm)		
Agency Ratings	FDA FCN 424		
	Europe 10/1/2011 12:00:00 AM		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.915	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.1 kg)	0.70	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 527-3
2% secant, MD: 50 µm	105	MPa	ISO 527-3
2% secant, TD: 50 µm	110	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm	5.20	MPa	ISO 527-3
TD: Yield, 50 µm	8.00	MPa	ISO 527-3
MD: Break, 50 µm	38.9	MPa	ISO 527-3
TD: Break, 50 µm	34.7	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 50 µm	610	%	ISO 527-3
TD: Break, 50 µm	630	%	ISO 527-3
Dart Drop Impact (50 µm)	1100	g	ISO 7765-1/A
Elmendorf Tear Strength ¹			ASTM D1922

MD : 50 μm	830	g	ASTM D1922
TD : 50 μm	1100	g	ASTM D1922
Seal Initiation Temperature (50 μm)	96.0	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 μm)	66		ASTM D2457
Haze (50.0 μm)	9.0	%	ASTM D1003

Extrusion instructions

Fabrication Conditions For Blown Film Extrusion:

Melt Temperature: 220°C

Die Diameter: 150 mm

Die Gap: 1.5 mm

Blow-Up Ratio: 2.5

Film Thickness: 50 μm.

NOTE

1. Method B

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